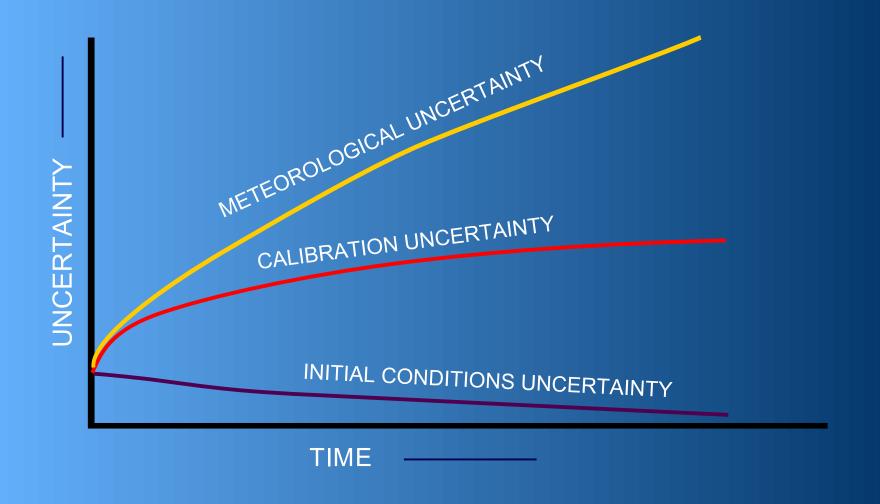
Probabilistic Hydrologic Forecasting

Assessing the Uncertainty in a Forecast

Uncertainty in Hydrologic Forecasts

Uncertainty is the reason we need to do probabilistic forecasting.

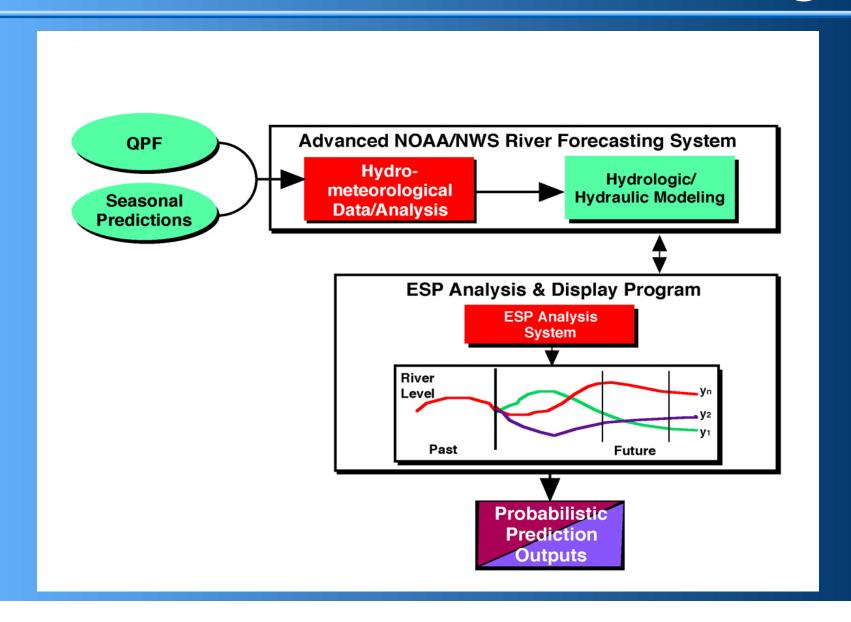


Assessing Uncertainty

In general the NWS has used ensembles and probabilities.

- Assessing the Uncertainty
 - ► Ad hoc scenarios
 - ► Review of like cases
 - Kalman filtering and uncertainty propagation
 - Analytic transformations (Bayesian Forecast System)
 - Climate ensembles and analog years
 - Synthetic ensembles

Ensemble Streamflow Forecasting

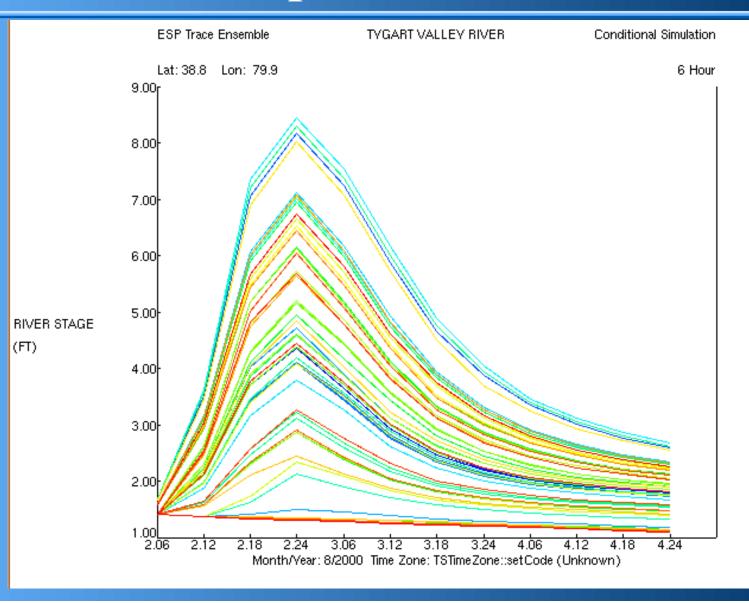


Describing Uncertainty

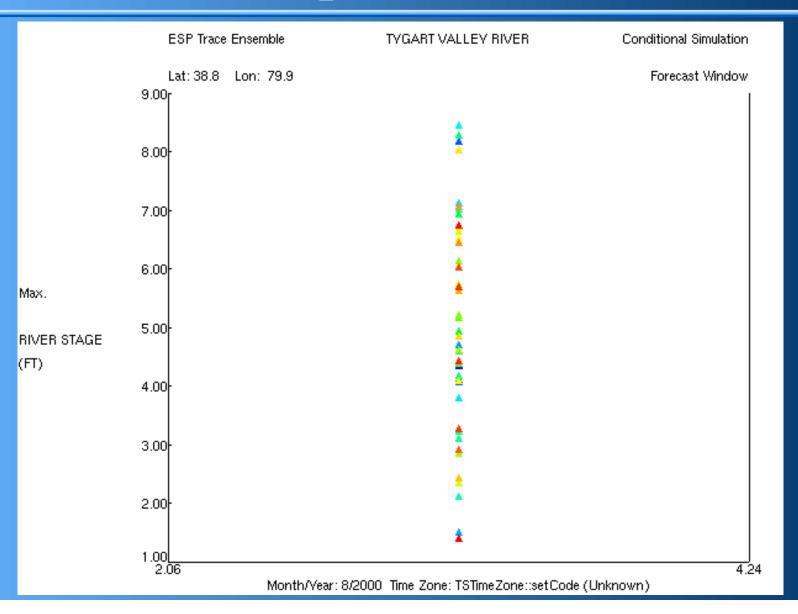
Formatting a Forecast is Also a Complex Issue

- Describing the Uncertainty
 - ► Text (likely to reach)
 - Numerical Ranges
 - Probabilities
 - How do we present a distribution in understandable terms?

Sample Product

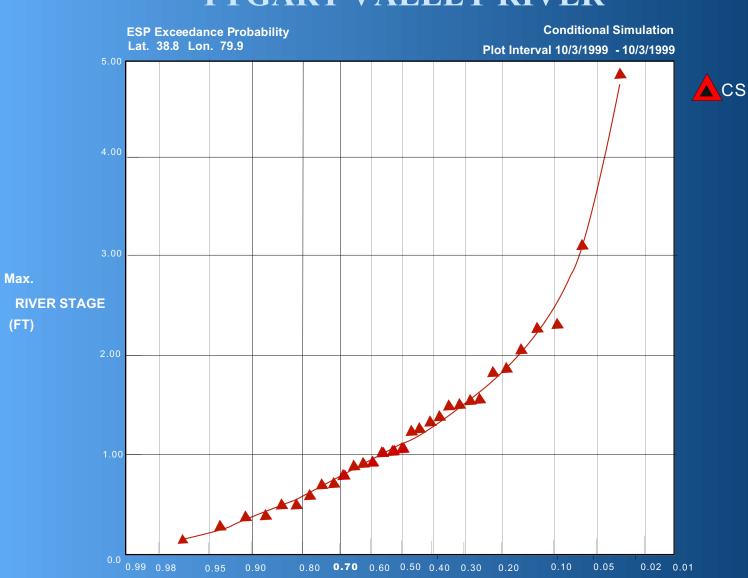


Sample Product

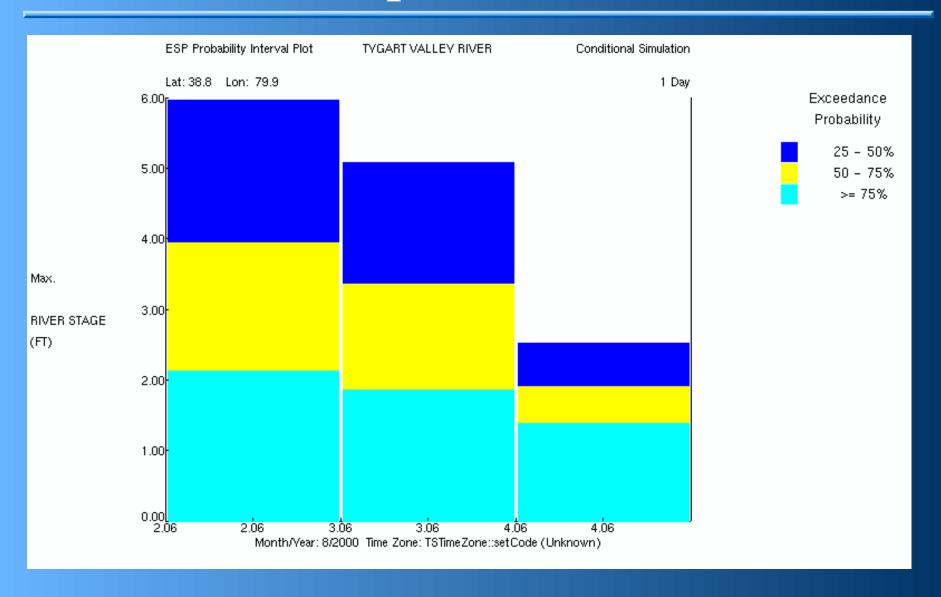


Sample Product

TYGART VALLEY RIVER



Sample Products



Sample Products

